

Release notes for ENDF/B Development n-081_T1_203
evaluation

ENDF
B-VII.dev

April 26, 2017

- **psyche** Warnings:

1. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 203. L = 1 / AT RESONANCE ENERGY 1.47300E+04 EV. THE GAMMA WIDTH 1.21227E+00 DEVIATES TOO MUCH FROM THE AVERAGE 2.98303E-01 (0): Gamma width

```
FILE 2
SECTION 151
ISOTOPE MASS = 203. L = 1
AT RESONANCE ENERGY 1.47300E+04 EV. THE GAMMA WIDTH 1.21227E+00 DEVIATES TOO MUCH FROM THE AV
```

- **recent** Warnings:

1. Statistical weight of certain L values were incorrect
0: RRR goof (a)

```
Calculate Cross Sections from Resonance Parameters (RECENT 2015-1)
=====
Retrieval Criteria----- MAT
File 2 Mimimum Cross Section- 1.0000E-10 (Standard Option)
Reactions with No Background- Output (Resonance Contribution)
... [481 more lines]
```

- **fudge-4.0** Warnings:

1. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 0: total (Error # 0): CS Sum.

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 2.27%

2. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 1: (z,n) (Error # 0): CS Sum.

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 12.80%

- **fudge-4.0** Errors:

1. The spin statistical weights are off, indicating missing channels
resonances / resolved / MultiLevel_BreitWigner (Error # 0): badSpinStatisticalWeights

WARNING: The spin statcal weights for L=1 sums to 2.25, but should sum to 3.0. You have too few channels for r

2. Calculated and tabulated Q values disagree.
reaction label 41: n[multiplicity:'2'] + Tl202 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -7516522.915344238 eV vs -7.849e6 eV!

3. Calculated and tabulated Q values disagree.
reaction label 42: n[multiplicity:'3'] + Tl201 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -14093480.46627808 eV vs -1.4721e7 eV!

4. Calculated and tabulated Q values disagree.
reaction label 43: n[multiplicity:'4'] + Tl200 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -22549568.7460022 eV vs -2.2924e7 eV!

5. Calculated and tabulated Q values disagree.
reaction label 44: Tl204 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 6924468.893280029 eV vs 6.656e6 eV!

- **njoy2012** Warnings:

1. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (0): HEATR/hinit (4)

---message from hinit---mf6, mt102 does not give recoil za= 81204
photon momentum recoil used.

- **acelst** Warnings:

1. The incident energy grid is not monotonic for this angular distribution
0: Bad Ang. Dist.

ACELST WARNING - Processing Ang.Dist.MT 2
E-grid non-monotonic 1.700000000E+01 1.700000000E+01

- **endf2htm** Warnings:

1. Build of a section of the HTML page failed because the format hasn't been implemented in ENDF2HTM.
MF32MT151: Unimplemented

At line 2659 of file endf.f
Fortran runtime error: Bad value during integer read